

Abstract

Described are a MgCl_2 based carrier containing $\text{Ti}(\text{OR})_4$ and ROH , wherein R is $\text{C}_1\sim\text{C}_7$ alkyl, and solid catalyst components made from said carrier. The carrier and the solid catalyst components according to the present invention are characterized in that in their X-rays powder diffraction spectra, one or two main diffraction lines or a halo appears at 2θ of $2\sim 14^\circ$ and in the range of 2θ of $14\sim 50^\circ$, there are the characteristic diffraction lines of anhydrous $\alpha\text{-MgCl}_2$. The carrier according to the present invention is directly obtained by reacting anhydrous magnesium chloride with an alcohol and can be used to prepare solid catalyst components without dealcoholization, and the solid catalyst components exhibit high polymerization activity when employed for polymerizing ethylene.